

Patent Abstracts of Japan

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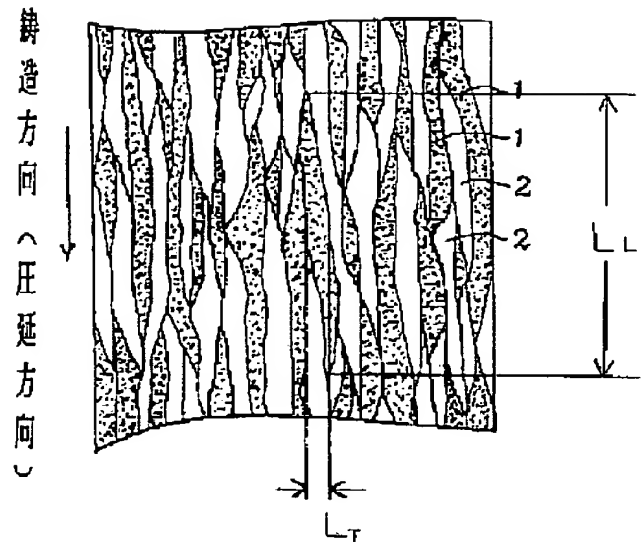
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TITLE : PRODUCTION OF ALUMINUM ALLOY
 SHEET FOR ANODIC OXIDATION
 TREATMENT



ABSTRACT : PURPOSE: To produce an Al alloy sheet for anodic oxidation treatment with a discontinuous vertically-striped pattern of a gray tone by subjecting the molten metal of an alloy having a specified compsn. constituted of Mn, Fe, Si, Ti, B and Al to specified cooling, casting and heat treatment.

CONSTITUTION: The molten metal of an alloy constituted of, by weight, 0.8 to 3.5% Mn, 0.05 to <1.0% Fe, ≤1.0% Si, ≤0.01% Ti, ≤0.002% B, and the balance Al with inevitable impurities is cast at ≥5°C/sec cooling rate and ≥0.8m/min casting rate by a twin roll casting method. Thus, the cast sheet in which ≥50% of the crystalline grains on the surface is regulated to $LL/LT \geq 2.0$ and $LT \geq 2.0\text{mm}$ (LL or LT denotes the maximum length parallel or vertical to the casting direction of the crystalline grains) is obtd. This cast sheet is subjected to cold rolling at need and is heated at 250 to 600°C for 0.5 to 24hr. By executing anodic oxidation treatment to the Al alloy sheet by a sulfuric acid soln., the sheet having a discontinuous vertically striped pattern of stable curly grains (straight grains) with a gray tone as it is securely and easily be obtd.

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